EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	36	(generat$3 or obtaining or processing)same(face or facial)same(plurality or plural$1 or sets) same extract$3 adj features same(edges or lines or wavelets or gradient or curvature oe colour)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/16 09:47
L2	10	L1 and transform$3 and(2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/16 09:48
L3	5	L2 and(@ad<"20031009" or @rlad<"20031009" or @prad<"20031009" or @ptad<"20031009")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/16 09:48
L4	0	(generat$3 or obtaining or processing)same(face or facial)same(plurality or plural$1 or sets) same different adj processed adj image same extract$3 adj features same(edges or lines or wavelets or gradient or curvature oe colour)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/16 09:54
L5	1	(generat$3 or obtaining or processing)and(face or facial)and(plurality or plural$1 or sets)and different adj processed adj image and extract$3 adj features and(edges or lines or wavelets or gradient or curvature or colour)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/16 09:56
L7	0	(generat$3 or obtaining or processing)same(face or facial)same(plurality or plural$1 or sets) same different adj processed adj image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/16 10:08
L8	5	(generat$3 or obtaining or processing)and(face or facial)and(plurality or plural$1 or sets)and different adj processed adj image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/16 10:08

L9	3	L8 and transform$3 and(2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/16 10:09
L10	1	L9 and extract$3 adj features and(edges or lines or wavelets or gradient or curvature or colour)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/16 10:09
L11	2	L9 and(@ad<"20031009" or @rlad<"20031009" or @prad<"20031009" or @ptad<"20031009")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/16 10:10
S1	3	"4155072".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 12:52
S2	15403	image adj recognit$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:00
S3	71	S2 and(generat$3 or obtaining)same(face or facial)same key	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:14
S4	44	S3 and(@ad<"20031009" or @rlad<"20031009" or @prad<"20031009" or @ptad<"20031009")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:16
S5	0	S4 and transform$3 and space3 adj data	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:17
S6	12	S4 and transform$3 and(space or 2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:18

S7	8	S6 and @ad<"20031009"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:18
S8	369	S2 and(generat$3 or obtaining)same(face or facial)adj image$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:19
S9	128	S8 and transform$3 and(2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:20
S10	102	S9 and(@ad<"20031009" or @rlad<"20031009" or @prad<"20031009" or @ptad<"20031009")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:20
S11	72	S10 and @ad<"20031009"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:20
S12	325	S2 and(generat$3 or obtaining)same(face or facial)and (set or plurality or plural$1)adj image$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:21
S13	134	S12 and transform$3 and(2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:21
S14	47	S13 and @ad<"20031009"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:21
S15	72	S13 and(@ad<"20031009" or @rlad<"20031009" or @prad<"20031009" or @ptad<"20031009")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:21

S16	21	S14 and feature adj extract$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:41
S17	17	S16 and(edge$1 or contour$1 or border$3 or boundar$3 or peripher$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:45
S18	1	S17 and line and wavelets and vector and curvature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:53
S19	1	S18 and image adj identificat$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:54
S20	28	S2 and(generat$3 or obtaining)same(face or facial)adj image$1 same structure	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:58
S21	0	S2 and(generat$3 or obtaining)same(face or facial)adj image$1 same surface adj structure	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:59
S22	17	S2 and(generat$3 or obtaining)same(face or facial)adj image$1 same surface	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:59
S23	9	S20 and @ad<"20031009"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:59
S24	1	S23 and feature adj extract$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 16:59

S25	1	S24 and(edge$1 or contour$1 or border$3 or boundar$3 or peripher$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:00
S26	1	S25 and transform$3 and(2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:00
S27	0	S26 and line and wavelets and vector and curvature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:00
S28	0	S26 and wavelets and vector and curvature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:00
S29	1	S26 and wavelets and vector	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:00
S30	3	S23 and image adj identificat$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:01
S31	0	S30 and feature adj extract$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:03
S32	2	S30 and extract$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:04
S33	0	S32 and(edge$1 or contour$1 or border$3 or boundar$3 or peripher$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:04

S34	0	S32 and wavelets and vector	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:04
S35	134	S12 and transform$3 and(2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:06
S36	112	S35 and(edge$1 or contour$1 or border$3 or boundar$3 or peripher$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:06
S37	26	S36 and wavelets and vector	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:07
S38	15	S37 and feature adj extract$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:07
S39	4	S38 and @ad<"20031009"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:07
S40	1152	S2 and(generat$3 or obtaining)same(face or facial)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:08
S41	200	S40 and feature adj extract$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:08
S42	139	S41 and(edge$1 or contour$1 or border$3 or boundar$3 or peripher$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:08

S43	76	S42 and transform$3 and(2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:08
S44	32	S43 and wavelets and vector	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:09
S45	13	S44 and @ad<"20031009"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:09
S46	125	((JAMES) near2 (AUSTIN)).INV.	US-PGPUB; USPAT	OR	ON	2009/01/14 17:15
S47	1	((NICHOLAS) near2 (PEARS)).INV.	US-PGPUB; USPAT	OR	ON	2009/01/14 17:15
S48	1	((THOMAS) near2 (HESELTINE)).INV.	US-PGPUB; USPAT	OR	ON	2009/01/14 17:15
S49	1	S46 and(generat$3 or obtaining)same(face or facial)and (set or plurality or plural$1)adj image$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:16
S50	1	S49 and transform$3 and(2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:16
S51	1	S47 and(generat$3 or obtaining)same(face or facial)and (set or plurality or plural$1)adj image$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/14 17:16
S52	1	((THOMAS) near2 (HESELTINE)).INV.	US-PGPUB; USPAT	OR	ON	2009/01/16 09:49
S53	1	S52 and(generat$3 or obtaining)same(face or facial)and (set or plurality or plural$1)adj image$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 09:49

S54	142	(generat$3 or obtaining)same(face or facial)same surface adj structure	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 09:50
S55	15	S54 and transform$3 and(space or 2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 09:53
S56	13	S55 and(@ad<"20031009" or @rlad<"20031009" or @prad<"20031009" or @ptad<"20031009")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 09:54
S57	7	S56 and @ad<"20031009"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 09:55
S58	0	S54 and transform$3 and reduction adj space	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 09:56
S59	123	transform$3 and reduction adj space and(facial or face)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 09:57
S60	123	S59 and transform$3 and(space or 2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 09:57
S61	0	S60 and feature adj extract$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 09:57
S62	99	S60 and(edge$1 or contour$1 or border$3 or boundar$3 or peripher$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 09:58

S63	0	S62 and wavelets and vector and curvature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 09:58
S64	18	S62 and curvature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 09:58
S65	15	S64 and(@ad<"20031009" or @rlad<"20031009" or @prad<"20031009" or @ptad<"20031009")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 09:59
S66	13	S64 and @ad<"20031009"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 09:59
S67	7	reduction adj space and(facial or face)same vector	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:02
S68	5	S67 and @ad<"20031009"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:02
S69	1	S68 and transform$3 and(space or 2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:05
S70	0	S69 and euclidean	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:08
S71	0	S69 and mahalanobis	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:09

S72	0	S69 and cosine adj distance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:09
S73	1	S69 and (PCA or principal adj component adj analysis)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:10
S74	0	S73 and (fishers adj linear adj discriminant adj analysis or FLDA)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:12
S75	0	S64 and euclidean	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:13
S76	0	S64 and (PCA or principal adj component adj analysis)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:13
S77	0	S64 and(fishers adj linear adj discriminant adj analysis or FLDA)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:14
S78	3816	(face or facial)and(PCA or principal adj component adj analysis)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:14
S79	23	S78 and(fishers adj linear adj discriminant adj analysis or FLDA)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:14
S80	15	S79 and transform$3 and(space or 2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:15

S81	0	S80 and transform$3 and reduction adj space	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:15
S82	0	S80 and reduction adj space	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:16
S83	3	S80 and euclidean	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:16
S84	2	S83 and @ad<"20031009"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:16
S85	0	S84 and mahalanobis	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:16
S86	0	S84 and cosine adj distance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:16
S87	0	S84 and wavelets and vector and curvature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:19
S88	0	S84 and wavelets	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:19
S89	2	S84 and vector	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:19

S90	0	S89 and curvature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:20
S91	5035	382/118,190,195,103,104,170,206,155,159,115,225,224,117,201,228.ccls.	USPAT	OR	ON	2009/01/16 10:28
S92	204	S91 and(face or facial)and(PCA or principal adj component adj analysis)	USPAT	OR	ON	2009/01/16 10:29
S93	2	S92 and(fishers adj linear adj discriminant adj analysis or FLDA)	USPAT	OR	ON	2009/01/16 10:29
S94	1	S93 and transform$3 and(space or 2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	USPAT	OR	ON	2009/01/16 10:30
S95	1	S94 and euclidean	USPAT	OR	ON	2009/01/16 10:30
S96	1518	704/251,E15.042,231,200.ccls.	USPAT	OR	ON	2009/01/16 10:33
S97	0	S96 and(fishers adj linear adj discriminant adj analysis or FLDA)	USPAT	OR	ON	2009/01/16 10:33
S98	8	S96 and(face or facial)and(PCA or principal adj component adj analysis)	USPAT	OR	ON	2009/01/16 10:34
S99	7	S98 and transform$3 and(space or 2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	USPAT	OR	ON	2009/01/16 10:34
S100	1	S99 and euclidean	USPAT	OR	ON	2009/01/16 10:34
S101	1	S100 and vector	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:34
S102	1450	345/441,418.ccls.	USPAT	OR	ON	2009/01/16 10:37
S103	11	S102 and(face or facial)and(PCA or principal adj component adj analysis)	USPAT	OR	ON	2009/01/16 10:37
S104	0	S103 and(fishers adj linear adj discriminant adj analysis or FLDA)	USPAT	OR	ON	2009/01/16 10:37
S105	6	S103 and transform$3 and(space or 2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	USPAT	OR	ON	2009/01/16 10:38
S106	1	S105 and euclidean	USPAT	OR	ON	2009/01/16 10:38

S107	1	S106 and vector	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:38
S108	0	S107 and wavelets	USPAT	OR	ON	2009/01/16 10:38
S109	1	S107 and curvature	USPAT	OR	ON	2009/01/16 10:39
S110	1	S109 and @ad< "20031009"	USPAT	OR	ON	2009/01/16 10:40
S111	1	S110 and normalisation	USPAT	OR	ON	2009/01/16 10:41
S112	1097	348/77,61,169.ccls.	USPAT	OR	ON	2009/01/16 10:46
S113	21	S112 and(face or facial)and(PCA or principal adj component adj analysis)	USPAT	OR	ON	2009/01/16 10:46
S114	0	S113 and(fishers adj linear adj discriminant adj analysis or FLDA)	USPAT	OR	ON	2009/01/16 10:46
S115	10	S113 and transform$3 and(space or 2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)	USPAT	OR	ON	2009/01/16 10:46
S116	1	S115 and euclidean	USPAT	OR	ON	2009/01/16 10:46
S117	1	S116 and vector	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/16 10:47
S118	0	S117 and wavelets	USPAT	OR	ON	2009/01/16 10:47
S119	0	S117 and curvature	USPAT	OR	ON	2009/01/16 10:47
S120	1	S117 and (3D or three adj dimensional$1 or 3D or 3-D)	USPAT	OR	ON	2009/01/16 10:49
S121	1	S120 and @ad< "20031009"	USPAT	OR	ON	2009/01/16 10:49
S122	0	((face or facial)adj recognition and transform$3 and(space or 2D or three adj dimensional$1 or 3D or 3-D or two adj dimensional$1)and(compar$5 or match$3)and storing and generat$3 adj image$1 and image adj key).CLM.	US-PGPUB	OR	ON	2009/01/16 10:59
S123	0	((face or facial)adj recognition and transform$3 and space adj data and(compar$5 or match$3) and storing and generat$3 adj image$1 and image adj key).CLM.	US-PGPUB	OR	ON	2009/01/16 10:59

| S124 | 0 | ((face or facial)adj recognition and transform$3 and space adj data and image adj key).CLM. | US-PGPUB | OR | ON | 2009/01/16 11:00 |

7/16/09 10:21:18 AM
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